



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 5, 2020

Lisa Adamson
Regulatory Manager
Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

Subject: Registration Review Label Mitigation for Quinclorac /Label Amendment – Label Updates Including Updating Company Information
Product Name: Quali-Pro Quinclorac 75 DF
EPA Registration Number: 53883-376
Application Date: December 10, 2018; December 4, 2018
Decision Number: 547440; 562426

Dear Ms. Adamson:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Quinclorac Interim Decision, and has concluded that your submission is acceptable. The agency also completed review of your amended label referred to above, submitted in connection with registration under FIFRA, as amended, and has determined the label is also acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions, please contact Lydia Crawford by phone at 703-347-0622, or via email at Crawford.Lydia@epa.gov.

Sincerely,



Emily Schmid, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

ACCEPTED

5/5/2020

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 53883-376

QUINCLORAC

GROUP

4

HERBICIDE

Quali-Pro® Quinclorac 75 DF
Herbicide**ACTIVE INGREDIENT:****% BY WT.**

Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid 75.0%

OTHER INGREDIENTS: 25.0%**TOTAL:** 100.0%

EPA Reg. No. 53883-376

EPA Est. No. XXXXXXXXXX**Manufactured for:**

Control Solutions, Inc.

5903 Genoa-Red Bluff

Pasadena, TX 77507-1041

Net Contents: 1 lb.**KEEP OUT OF REACH OF CHILDREN**
CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by the poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at (866) 897-8050 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS****CAUTION**

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, clothing, or eyes. Avoid breathing dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such guidelines for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Keep out of lakes, ponds and streams. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. **DO NOT** contaminate water by cleaning of equipment or disposal of rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical where soils are permeable, mainly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For use only by certified commercial applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Follow all applicable directions, restrictions, and precautions. This label must be in possession of the user at the time of application.

DO NOT apply this product by air or through any type of irrigation equipment.

Control Solutions, Inc. does not recommend or authorize the use of this product in manufacturing, processing, or preparing custom blends with other products for application to the turf.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, and water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material (made of nitrile, butyl, neoprene, and/or barrier laminate)
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Professional applications to residential and nonresidential turf are not within the scope of the Worker Protection Standard.

DO NOT enter or allow others to enter the treated area until sprays have dried.

PRODUCT INFORMATION

Used as a postemergence spray, Quali-Pro® Quinclorac 75 DF controls many broadleaf and grass weeds in turfgrasses growing in sites including, grounds or lawns around residential and commercial establishments, multi-family dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, and sod farms (except Arizona).

The weed foliage and roots absorb Quali-Pro Quinclorac 75 DF and translocate it throughout the weed. Treated weeds will show signs of leaf and stem curling or twisting, stunting, change color from green to white (chlorosis), finally to red, and become necrotic before finally dying. Refer to the tables below for information on **WEEDS CONTROLLED** and **TOLERANT TURFGRASS SPECIES**.

Restrictions

- **DO NOT** apply more than 1 pounds of Quali-Pro Quinclorac 75 DF per acre per year (equivalent to 0.367 oz per 1000 sq ft or 0.75 lbs a.i./acre/year).
- **DO NOT** apply to golf course collars or greens.
- **DO NOT** make applications of Quali-Pro Quinclorac 75 DF to turfgrass under stress from drought. Optimum results are obtained if weeds are not under stress from lack of water, excessive water, low fertility, mowing shock, excessively hot or cold temperatures, or injury from other herbicide applications.
- **DO NOT** apply to fine fescue unless it is part of a seed blend.
- **DO NOT** apply to Bahiagrass, carpetgrass, St. Augustinegrass, Centipedegrass, dichondra, or lawns or turf where desirable clovers are present.
- **DO NOT** apply within four weeks after seedling emergence of Kentucky bluegrass, creeping bentgrass, fine fescue blends, and perennial ryegrass.
- **DO NOT** apply to exposed feeder roots of trees or ornamentals. Be particularly careful within the drip line of trees and other ornamental species.
- **DO NOT** apply to any ornamental bed.
- **DO NOT** use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.
- **DO NOT** plant eggplant or tobacco within 12 months on fields treated with Quali-Pro Quinclorac 75 DF.
- **DO NOT** plant tomatoes or carrots within 24 months on fields treated with Quali-Pro Quinclorac 75 DF.
- **DO NOT** apply when conditions favor drift from the target area. Apply when wind speed is less than ten mph as drift may cause damage or death of nontarget area vegetation.
- Use a lawn-type sprayer with coarse spray to reduce drift from wind.
- **DO NOT** allow contact with vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants, especially plants belonging to the *Solanaceae* family (tomatoes, eggplant, and bell peppers). **DO NOT** pour spray solutions near these plants.

- **DO NOT** use to formulate or reformulate any other pesticide product which is not registered by EPA.
- **The state of Arizona has not approved this product for use on sod farms (an agricultural use). This product may not be used in Arizona for any other uses considered by the Arizona statutes to be agricultural uses.**

WEED RESISTANCE MANAGEMENT

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of Quali-Pro® Quinclorac 75 DF or other Group 4 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide used and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact company representatives at (800) 242-5562 or at www.controlsolutionsinc.com. In addition to the guidance above, registrants are encouraged to incorporate the appropriate elements of Best Management Practices from HRAC and WSSA on the label.

APPLICATION INFORMATION

Use broadcast or spot sprays to apply Quali-Pro Quinclorac 75 DF postemergence to actively growing weeds. The use rates and tolerant turfgrasses are listed in the tables below. **DO NOT** apply more than the labeled rates. Follow all use restrictions listed above under **Restrictions**.

Mowing: DO NOT MOW 2 DAYS BEFORE OR AFTER APPLYING Quali-Pro Quinclorac 75 DF. This practice will maximize weed control and minimize potential turf injury. **Leave clippings from the first three mowings on the treated area.**

Droplet Size: Apply as a medium or coarser spray (ASABE standard 572).

Release Height: Do not release spray at a height greater than 30 inches above the ground.

Wind Speed: Do not apply when wind speeds are greater than 10 mph at the application site.

Irrigation and Rainfall: If soil is dry before a Quali-Pro Quinclorac 75 DF application, irrigation of the turfgrass may improve weed control. For best results, **DO NOT** water or irrigate for 24 hours after a Quali-Pro Quinclorac 75 DF application. Irrigate the treated turfgrass with at least ½ inch of water 2 to 7 days after application if no rainfall is received within that period.

TOLERANT TURFGRASS SPECIES (ESTABLISHED)

Highly Tolerant	Moderately Tolerant	Susceptible
Bermudagrass, Common*	Bentgrass, Creeping*	Bahiagrass
Bluegrass, Annual	Bermudagrass, Hybrid*	Bentgrass, Colonial
Bluegrass, Kentucky	Bluegrass, Rough (<i>Poa trivialis</i>)	Bentgrass, Seaside
Buffalograss	Fescue, Chewing's	Centipedegrass
Fescue, Tall	Fescue, Fine**	Dichondra
Ryegrass, Annual	Fescue, Hard	St. Augustinegrass
Ryegrass, Perennial	Fescue, Red	
Zoysiagrass	Paspalum, Seashore	
<p>* To reduce yellowing on these species, add chelated iron or sprayable soluble nitrogen fertilizers (refer to the ADJUVANTS section below).</p> <p>** Apply Quali-Pro Quinclorac 75 DF herbicide to fine fescue only when it is part of a blend. DO NOT use on golf course greens and collars. See additional information for fine fescue in blends under the section on SEEDING, OVERSEEDING, AND SPRIGGING.</p>		

ADJUVANTS

To achieve consistent weed control, include an adjuvant in the spray solution with Quali-Pro Quinclorac 75 DF. Applied in combination with Quali-Pro Quinclorac 75 DF, adjuvants may cause slight turfgrass leaf burn; however, new growth will resume, and turf vigor is not reduced. To prevent leaf burn and turfgrass damage, do not apply Quali-Pro Quinclorac 75 DF when relative humidity and temperatures are high. Keep the mowing heights higher to avoid turf stress and the possibility of turf injury. Some turfgrass species will be less affected by leaf burn or yellowing if a chelated iron or sprayable soluble nitrogen fertilizer is added to the Quali-Pro Quinclorac 75 DF tank solution.

The preferred adjuvant is methylated seed oil (MSO). A non-ionic surfactant may also be used, but under some environmental conditions, phytotoxicity or less than optimal efficacy may be observed. When an adjuvant is to be used with this product, Control Solutions, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

Before selecting a methylated seed oil to use with Quali-Pro Quinclorac 75 DF, be sure that the MSO:

- is nonphytotoxic
- contains only EPA-exempt ingredients
- provides good mixing quality in the **Compatibility Test for Tank Mixtures** (below)
- has been successful under local experience
- contains emulsifiers to provide good mixing quality

DO NOT include additives when tank mixing with emulsifiable concentrate (EC) products as this may cause phytotoxicity. Consult your local Control Solutions, Inc. representative or distributor for instructions for your area.

TURFGRASS TANK MIXES WITH QUALI-PRO QUINCLORAC 75 DF

Before using other products in combination with Quali-Pro Quinclorac 75 DF, read and follow the **Restrictions and Limitations** and **Directions for Use** on all products' labels. Follow the most restrictive label. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Consult tolerant turfgrass species on all labels. Do not tank mix with Quali-Pro Quinclorac 75 DF if all target weeds are not at the correct growth stage for treatment at the same time—in that case, make separate applications of the herbicides.

The spectrum of control of broadleaf weed species can be increased with Quali-Pro Quinclorac 75 DF in a tank mix with 2,4-D, triclopyr, MCPA, MCPP, or other broadleaf herbicides.

Extended residual control of annual grasses is achieved with Quali-Pro Quinclorac 75 DF in a tank mix with pendimethalin herbicides.

Applications of Quali-Pro Quinclorac 75 DF in a tank mix with bentazon, imazaquin, or MSMA can control sedge.

Some grassy weeds such as Bahiagrass or kikuyugrass are controlled by Quali-Pro Quinclorac 75 DF and MSMA tank mixes.

Quali-Pro Quinclorac 75 DF tank mixes with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers (except where noted above) have the potential for physical incompatibility, reduced weed control, or turf injury.

Before preparing a tank mix of Quali-Pro Quinclorac 75 DF with another product, perform the test **Compatibility Test for Tank Mixtures**.

SEEDING, OVERSEEDING, AND SPRIGGING

Quali-Pro Quinclorac 75 DF will not significantly interfere with turfgrass seed germination and growth of those grass types identified as tolerant or moderately tolerant in the **WEEDS CONTROLLED** table if applied before or after seeding or overseeding a turf area.

Because different bermudagrass seeds may have different germination characteristics, check the germination vigor of your seeded hybrid bermudagrass before using Quali-Pro Quinclorac 75 DF before, at seeding, and seven days after seeding.

Additional information on the timing of Quali-Pro Quinclorac 75 DF applications in seeding, overseeding, or sprigging situations is found in the table below.

SEEDING, OVERSEEDING, AND SPRIGGING TIMING CHART (SEE FOOTNOTE 1)					
TURFGRASS VARIETY	Before Seeding ²	At Seeding	7 Days After Emergence	14 Days After Emergence	28 Days After Emergence
Annual Bluegrass	√	√	√	√	√
Annual Ryegrass	√	√	√	√	√
Buffalograss	√	√	√	√	√
³ Common Bermudagrass (for sprigging see footnote 3)	√	√	√	√	√
Creeping Bentgrass	√	NO	NO	NO	√
Fine Fescue (in a blend)	√	NO	NO	NO	√
³ Hybrid Bermudagrass (for sprigging see footnote 3)	√	√	√	√	√
Kentucky Bluegrass	√	NO	NO	NO	√
Perennial Ryegrass	√	√	NO	NO	√
^{3,4} Seashore Paspalum (for sprigging see footnote 3)	NO	NO	NO	√	√
Tall Fescue	√	√	√	√	√
³ Zoysiagrass (for sprigging see footnote 3)	√	√	√	√	√

¹ Note: √ = acceptable timing for Quali-Pro Quinclorac 75 DF applications. Time applications around the seeding operations using the above table as a reference point. Do not use an adjuvant or additive when Quali-Pro Quinclorac 75 DF herbicide applications are made on newly emerged turf seedlings until 28 days after emergence (except in the case of seashore paspalum). Apply Quali-Pro Quinclorac 75 DF at an application rate of 0.367 oz/1000 sq ft to all turfgrass species listed in this table except for seashore paspalum.

² Apply Quali-Pro Quinclorac 75 DF seven days or more before seeding.

³ Use Quali-Pro Quinclorac 75 DF at any time prior to, at, or after sprigging as indicated by turfgrass species in this table.

⁴ Make applications of 0.18 oz to 0.367 oz Quali-Pro Quinclorac 75 DF per 1000 sq ft at the times indicated in this table.

DIRECTIONS FOR MIXING QUALI-PRO QUINCLORAC 75 DF

Follow the directions below to mix Quali-Pro Quinclorac 75 DF either alone or with tank-mix partners. Directions are provided for ground application equipment and for backpack sprayers.

Before mixing Quali-Pro Quinclorac 75 DF with other products, conduct a compatibility test to determine if the spray solution is stable. Follow the directions in the section **Compatibility Test for Tank Mixtures** below.

If tank mixing with products in water-soluble pouches, allow pouches to dissolve before agitation.

Ground Driven Sprayer:

1. Use only spray tanks that have been cleaned prior to use.
2. Add $\frac{1}{2}$ to $\frac{3}{4}$ the amount of required water to the spray tank.
- 3A. **For Quali-Pro Quinclorac 75 DF alone:**
 - Make a premix (1 part Quali-Pro Quinclorac 75 DF + 2 parts water) or slowly add Quali-Pro Quinclorac 75 DF to the partially filled tank.
 - Begin agitation until completely dispersed.
 - Add the remaining amount of water to the tank and agitate to ensure uniform distribution.
 - Continue agitation until spraying is completed. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.
- 3B. **For Quali-Pro Quinclorac 75 DF and Wettable Powder Formulations (WP):**
 - Slowly add the required amount of Quali-Pro Quinclorac 75 DF to the partially filled tank.
 - Begin agitation until completely dispersed.
 - Make a slurry of the WP (1 part WP + 2 parts water), then add to the spray tank and agitate.
 - Add the remaining amount of water to the tank and agitate to ensure uniform distribution.
 - Continue agitation until spraying is completed. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.
- 3C. **For Quali-Pro Quinclorac 75 DF and Flowable Formulations (F):**
 - Slowly add the required amount of Quali-Pro Quinclorac 75 DF to the partially filled tank.
 - Begin agitation until completely dispersed.
 - Make a slurry of the F formulation (1 part F + 2 parts water), then add to the spray tank and agitate.
 - Add the remaining amount of water to the tank and agitate to ensure uniform distribution.
 - Continue agitation until spraying is completed. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.
- 3D. **For Quali-Pro Quinclorac 75 DF and Emulsifiable Concentrate Formulations (EC):**
 - Slowly add the required amount of Quali-Pro Quinclorac 75 DF to the partially filled tank.
 - Begin agitation until completely dispersed.
 - Make a premix of the EC (1 part EC + 2 parts water), then add to the spray tank and agitate.
 - Add the remaining amount of water to the tank and agitate to ensure uniform distribution.
 - Continue agitation until spraying is completed. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.
- 3E. **For Quali-Pro Quinclorac 75 DF and Dry Flowable (Water Dispersible Granule) Formulations (WDG):**
 - Slowly add the required amount of Quali-Pro Quinclorac 75 DF to the partially filled tank.
 - Begin agitation until completely dispersed.
 - Make a premix of the WDG (1 part WDG + 2 parts water), then add to the spray tank and agitate.
 - Add the remaining amount of water to the tank and agitate to ensure uniform distribution.
 - Continue agitation until spraying is completed. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.

Backpack Sprayer:

1. Use only spray tanks that have been cleaned from previous uses.
2. Add $\frac{1}{2}$ the amount of required water to the spray tank.
3. Add the required amount of Quali-Pro Quinclorac 75 DF to the partially filled tank.
4. Replace the cap and agitate to completely mix the contents.
5. **Liquid Fertilizers:** add the desired amount of fertilizer product.
6. Remove the cap and add the remaining amount of water to the tank. Replace the cap and agitate to ensure uniform distribution.
7. During the spray operation, re-agitate the mixture occasionally to ensure that the product does not settle out. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.

Liquid Fertilizers: When mixing with liquid fertilizers, perform a simple jar test with small quantities of tank-mix components to ensure compatibility. Add the required amount of Quali-Pro Quinclorac 75 DF to a half-filled tank while agitating and then add the fertilizer product. Complete filling spray tank to the desired level.

Compatibility Test for Tank Mixtures

Carry out this test using a one-quart jar. Add the ingredients in the order listed below. Calculate the amount to add to a one-quart jar using the following guidelines:

- For dry products applied at 1 lb per acre, add two teaspoons to a one-quart jar.
 - For liquid products applied at 1 pint per acre, add one teaspoon to a one-quart jar.
1. **Water:** For a spray volume of 20 gallons per acre, add 3.3 cups (800 ml) of water. Adjust the volume accordingly if other spray volumes are planned. Use water from the intended source at the source temperature.
 2. **Water-soluble packages:** Slit one of the bags just wide enough for a teaspoon to remove the sample. If compatible, use the opened bag first when preparing a tank mix solution. Boron-containing fertilizers can be incompatible with water-soluble bags. Include water-soluble bags if a boron fertilizer is intended to be used. Cap the jar and invert ten times.
 3. **Water-Dispersible (WG) products** (such as dry flowables (DF) including Quali-Pro Quinclorac 75 DF, wettable powders (WP), suspension concentrates (SC), or suspoemulsions): Cap the jar and invert ten times.
 4. **Water-soluble products** (such as solutions (S), soluble powders (SP), or soluble granules (SG)): Cap the jar and invert ten times.
 5. **Emulsifiable concentrates or methylated seed oil:** Cap the jar and invert ten times.
 6. **Water-soluble additives:** Cap the jar and invert ten times.

Let the test mixture stand for 15 minutes and then evaluate for uniformity and stability. If the mixture in the jar forms crystals, flakes, sludge, gels, oily films, or layers, the components are NOT compatible. WG or WP products may result in a fine precipitate that is easily resuspended, which is normal; however, if large non-dispersible particles (>300 microns) precipitate on standing, this indicates that the tank mix is not compatible. **DO NOT** use any spray solution that could clog spray nozzles.

Spraying Instructions for Quali-Pro Quinclorac 75 DF

Make applications of Quali-Pro Quinclorac 75 DF with properly calibrated ground equipment. Apply in a minimum of 20 gallons of water per acre (or a minimum of 0.5 gallons per 1000 sq. ft.) at pressures between 20 and 40 psi to provide uniform spray distribution.

Make sure the spray tank is continuously agitated during the application. Use nozzle screens, which are no finer than 50 mesh (100 mesh is finer than 50 mesh). The use of flat fan, flood or cone nozzles is permitted, and arrange the nozzles to provide thorough, uniform coverage of turfgrass and weeds. Adjust the boom height, nozzle selection, and pressure to provide uniform coverage and to minimize spray drift.

Check sprayer routinely to determine proper calibration.

Avoid overlaps as these lead to applying higher rates than allowed.

Do not apply if weather conditions favor drift from treated areas.

Spot Applications: Use 0.367 oz Quali-Pro Quinclorac 75 DF per 1,000 sq ft of the treated area for postemergence spot applications to susceptible weeds in tolerant turfgrass. Apply in at least one 1-gallon spray mix per 1000 sq ft to ensure thorough, uniform spray coverage.

Apply Quali-Pro Quinclorac 75 DF to newly germinated 1-2 leaf crabgrass, to 1-tiller crabgrass, and when crabgrass has matured to 5 tillers or greater. In some situations, applications of Quali-Pro Quinclorac 75 DF made to annual grasses 2-4 tiller may not provide complete control.

Use the table below for use rates and mixing directions.

SPOT APPLICATIONS WITH QUALI-PRO QUINCLORAC 75 DF		
Spray Mix Volume (gallons)	Amount of Quali-Pro Quinclorac 75 DF Product in Tablespoons	Amount of MSO Adjuvant in Tablespoons
1	1	2
2	2	4
3	3	6

Spray Equipment Cleaning Procedure

Use a strong detergent or commercial sprayer cleaner according to the manufacturer's directions to clean the application equipment thoroughly before and after applying this product.

APPLICATION RATES

Refer to the **WEEDS CONTROLLED** table for the grasses and broadleaf weeds controlled by Quali-Pro Quinclorac 75 DF and for other weed-specific use directions.

Broadcast Applications:

- Apply 1 lb. Quali-Pro Quinclorac 75 DF per acre (equivalent to 0.367 oz per 1000 sq ft or 0.75 lb. a.i./acre)

Spot Applications:

- Apply 0.367 oz of Quali-Pro Quinclorac 75 DF per 1000 sq ft of the treated area. Refer to footnotes in the WEEDS CONTROLLED table and directions for application to creeping Bentgrass.

Additives:

- Apply 1.5 pints of methylated seed oil per acre (0.55 oz per 1000 sq ft) with Quali-Pro Quinclorac 75 DF applications.

Creeping Bentgrass:

- Make 2 to 3 split applications of Quali-Pro Quinclorac 75 DF at 0.123 to 0.245 oz. Per 1000 sq. Ft. Do not exceed 1 lb. of Quali-Pro Quinclorac 75 DF per acre per season (equivalent to 0.75 lbs. a.i./A). The application(s) should be made at 21-day intervals.
- Include methylated seed oil at 0.55 oz. Per 1000 sq. ft. (1.5 pints per acre). To reduce yellowing on creeping bentgrass, add chelated iron or sprayable soluble nitrogen fertilizers (refer to the **ADJUVANTS** section). **DO NOT** use on golf course greens and collars. See additional information for creeping bentgrass under the section on **SEEDING, OVERSEEDING, AND SPRIGGING**.

WEEDS CONTROLLED

Grasses Controlled:

Common Name (Scientific Name)

Barnyardgrass (*Echinochloa crusgalli*)
^{1,3} Crabgrass, Large (*Digitaria sanguinalis*)
^{1,3} Crabgrass, Smooth (*Digitaria ischaemum*)
¹ Foxtail, Giant (*Setari faberi*)
¹ Foxtail, Green (*Setari viridis*)
¹ Foxtail, Yellow (*Setari glauca*)
² Kikuyugrass (*Pennisetum clandestinum*)
¹ Signalgrass, Broadleaf (*Brachiaria platyphylla*)
 Torpedograss (*Panicum repens*)

Broadleaf Weeds Controlled

Common Names (Scientific Name)

Bindweed, Field (*Convolvulus arvensis*)
 Clover, Hop (*Trifolium aureum* Pollich)
 Clover, Red (*Trifolium pretense*)
 Clover, White (*Trifolium repens*)
^{2,4} Daisy, English (*Bellis perenne*)
² Dandelion, Common (*Taraxacum officinale*)
 Dollarweed (*Hydrocotyle umbellate*)
 Geranium, Carolina (*Geranium carolinianum*)
 Medic, Black (*Medicago lupulina*)
 Morningglory spp. (*Ipomea* sp.)
 Speedwell, Common (*Veronica officinalis*)
 Speedwell, Slender (*Veronica filiformis*)
 Speedwell, Thymeleaf (*Veronica serpyllifolia*)
 Violet, Wild (*Viola* sp.)

¹Complete control may not be achieved under certain conditions when Quali-Pro Quinclorac 75 DF is applied to annual grasses at 2 – 4 tiller stage. In these cases, make a sequential application for grass control. For best results, apply Quali-Pro Quinclorac 75 DF + methylated seed oil either before the second tiller stage or as the weed grasses mature.

²For these weeds, the use of a tank mix partner or sequential application will be required.

³ In California, some large and smooth crabgrass biotypes have shown varied responses to Quali-Pro Quinclorac 75 DF. If failure to control this weed occurs following a full or split application, **DO NOT** reapply Quali-Pro Quinclorac 75 DF. Instead, use a herbicide with a different mode of action.

⁴ **DO NOT USE** to control this weed in California.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry and well-ventilated area. **DO NOT** store under wet conditions.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable Container (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

Nonrefillable Container (rigid-fifty lbs. or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefillable Container (rigid-greater than fifty lbs.): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Refillable Container: Refillable container. Refill this container with quinclorac only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, the user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for the use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Control Solutions, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc.'s election, the replacement of product.

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